Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Yelahanka

Name of Work: Improvements Road and Drain at Srinivasapura in Ward No. 05

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3(I No-19.1, P No-133)								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub total	91.02							
	6.00% AW	5.46							
	Sub total	96.48							
	10km lead & lift, transport	84.00							
	Total	**180.48**							
	Cross Road -1	2	45.00	1.05	0.90	85.05			
	Cross Road -2	1	92.00	1.05	0.90	86.94			
	Cross Road -3	2	89.00	1.05	0.90	168.21			
	Cross Road -4	2	62.00	1.05	0.90	117.18			
	Culverts	4	6.50	1.50	0.90	35.10			
						515.16	**Cum**	**180.48**	**92,976.69**
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms^thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2)								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub total	5601.06							
	6.00% AW	336.06							
	Sub total	5937.12							
	CC Drain								
	Cross Road -1	2	45.00	1.05	0.15	14.18			
	Cross Road -2	1	92.00	1.05	0.15	14.49			
	Cross Road -3	2	89.00	1.05	0.15	28.04			
	Cross Road -4	2	62.00	1.05	0.15	19.53			
	Cross Road -5	1	24.00	1.05	0.15	3.78			
	Culverts	4	6.50	1.50	0.15	5.85			
	CC Road								
	Cross Road -1	1	50.00	7.00	0.15	52.50			
	Cross Road -2	1	96.00	7.90	0.15	113.76			
	Cross Road -3	1	92.00	6.00	0.15	82.80			
	Cross Road -4	1	86.00	4.90	0.15	63.21			
						398.13	**Cum**	**5937.12**	**2363747.02**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs, with 20mmand down size graded granite metal coarse aggregates @0.0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6(I No-4.11,P No-13)								
	Basic rate	6011.00							
	11% AD-HOC	661.21							
	Sub total	6672.21							
	6.00% AW	400.33							
	Sub total	7072.54							
	CC Drain Raft								
	Cross Road -1	2	45.00	0.90	0.15	12.15			
	Cross Road -2	1	92.00	0.90	0.15	12.42			
	Cross Road -3	2	89.00	0.90	0.15	24.03			
	Cross Road -4	2	62.00	0.90	0.15	16.74			
	Cross Road -5	1	24.00	0.90	0.15	3.24			
	CC Drain Wall								
	Cross Road -1	4	45.00	0.15	0.60	16.20			
	Cross Road -2	2	92.00	0.15	0.60	16.56			
	Cross Road -3	4	89.00	0.15	0.60	32.04			
	Cross Road -4	4	62.00	0.15	0.60	22.32			
	Cross Road -5	2	24.00	0.15	0.50	3.60			
						159.30	**Cum**	**7072.54**	**1126656.04**
4	KSRB 4-6.4 : Providing and **removing centering, shuttering,** strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.								
	Basic rate	293.00							
	11% AD-HOC	32.23							
	Sub total	325.23							
	6.00% AW	19.51							
	Sub total	344.74							
	Cross Road -1	8	45.00		0.60	216.00			
	Cross Road -2	4	92.00		0.60	220.80			
	Cross Road -3	8	89.00		0.60	427.20			
	Cross Road -4	8	62.00		0.60	297.60			
	Cross Road -5	4	24.00		0.50	48.00			
						1209.60	**Sqm**	**344.74**	**417002.10**
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	Basic rate	60607.00							

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	11% AD-HOC	6666.77							
	Sub total	67273.77							
	6.00% AW	4036.43							
	Sub total	71310.20							
	Consider 60kg/Cum	1	159.30	60.00		**9558.00**			
						9.56	**Tn**	**71310.20**	**681582.86**
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2100.00							
	Cross Road -1	2	45.00	0.90		81.00			
	Cross Road -2	1	92.00	0.90		82.80			
	Cross Road -3	2	89.00	0.90		160.20			
	Cross Road -4	2	62.00	0.90		111.60			
	Cross Road -5	1	24.00	0.90		21.60			
						457.20	**Sqm**	**2100.00**	**960120.00**
7	KSRB 5.2-2: Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per/ specifications.(P.No-23,I No-5.6)								
	Basic rate	4187.00							
	11% AD-HOC	460.57							
	Sub total	4647.57							
	6.00% AW	278.85							
	Sub total	4926.42							
	Culverts	8	6.50	0.45	0.75	17.55			
						17.55	**Cum**	**4926.42**	**86,458.74**
8	KSRB 15.1.3 – do – Providing **ruled pointing to** coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications..(P.No-112,I No-15.3)								
	Basic rate	98.00							
	11% AD-HOC	10.78							
	Sub total	108.78							
	6.00% AW	6.53							
	Sub total	115.31							
	Culverts	8	6.50		0.75	39.00	Sqm	**115.31**	**4,496.97**
9	KSRB 4-1.6 ; Providing and laying in position plain **cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(P.No-12,I No-4.6)								
	Basic rate	5441.00							
	11% AD-HOC	598.51							
	Sub total	6039.51							
	6.00% AW	362.37							
	Sub total	6401.88							

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culverts	8	6.50	0.45	0.10	2.34			
						2.34	**Cum**	**6401.88**	**14,980.40**
0	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As								
	Basic rate	5111.00							
	Culverts	4	6.50	1.50		39.00			
						39.00	**Sqm**	**5111.00**	**199329.00**
11	KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
	Basic rate	46.00							
	11% AD-HOC	5.06							
	Sub total	51.06							
	6.00% AW	3.06							
	Sub total	54.12							
	10km lead & lift, transport	84.00							
	Total	**138.12**							
	Cross Road -1	1	50.00	7.00	0.20	70.00			
	Cross Road -2	1	96.00	7.90	0.20	151.68			
	Cross Road -3	1	92.00	6.00	0.20	110.40			
	Cross Road -4	1	86.00	4.90	0.20	84.28			
						416.36	**Cum**	**138.12**	**57,509.14**
12	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material (P.No.155, I.No. 20.4.2)								
	Basic rate	1571.00							
	11% AD-HOC	172.81							
	Sub total	1743.81							
	6.00% AW	104.63							
	Sub total	1848.44							
	Cross Road -1	1	50.00	7.00	0.15	52.50			
	Cross Road -2	1	96.00	7.90	0.15	113.76			
	Cross Road -3	1	92.00	6.00	0.15	82.80			
	Cross Road -4	1	86.00	4.90	0.15	63.21			
						312.27	**Cum**	**1848.44**	**577211.92**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	KSRB 4-1.5 : Providing and laying in position plain **cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 of PWD SR 2015-16)								
	Basic rate	5542.00							
	11% AD-HOC	609.62							
	Sub total	6151.62							
	6.00% AW	369.10							
	Sub total	6520.72							
	Cross Road -1	1	50.00	7.00	0.15	52.50			
	Cross Road -2	1	96.00	7.90	0.15	113.76			
	Cross Road -3	1	92.00	6.00	0.15	82.80			
	Cross Road -4	1	86.00	4.90	0.15	63.21			
						312.27	**Cum**	**6520.72**	**2036224.36**
14	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No. 22.7)								
	Basic rate	90.00							
	11% AD-HOC	9.90							
	Sub total	99.90							
	6.00% AW	5.99							
	Sub total	105.89							
	CC Road								
	Cross Road -1	1	50.00	7.00		350.00			
	Cross Road -2	1	96.00	7.90		758.40			
	Cross Road -3	1	92.00	6.00		552.00			
	Cross Road -4	1	86.00	4.90		421.40			
						2081.80	**Sqm**	**105.89**	**220450.13**
15	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. - for concrete pavement (P.No.177, I.No. 22.7)								
	Basic rate	115.00							
	11% AD-HOC	12.65							
	Sub total	127.65							
	6.00% AW	7.66							
	Sub total	135.31							
	CC Road								
	Cross Road -1	1	50.00			50.00			
	Cross Road -2	1	96.00			96.00			
	Cross Road -3	1	92.00			92.00			
	Cross Road -4	1	86.00			86.00			
			324.00						
	at 3.00m	108	2.80			302.40			
						626.40	**mtr**	**135.31**	**84,757.5**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							Total Construction Cost	8923502.93
							KRIDL Charges	981585.32
							Towards PMC Cost	94,900.00
							Sub Total	9999988.25
							Utility Shifting,Miscellaneous and Rounding off	11.75
							GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer, 7/2/18
Project Division Yelahanka
BBMP Bangalore

Administrative Approval

Accorded For 100.00 Lakhs only
Head of A/C P3158
CER NO :114 Dt:8/2/18

E,E, (Project) 7.8/2

Technical Sanction

Accorded For 100.00 Lakhs only
Head of A/C P3158
CER NO :620 Dt:08/02/18

TA CE (YNK)